

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L9	9	"5657454"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 19:50
S1	24	"5200750"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:21
S2	2	"20050063476"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:27
S3	211	"32278"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:35
S4	5	(detect\$3 or sens\$3) NEAR1 programmable NEAR1 number NEAR1 zero sample\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 19:48
S5	0	(detect\$3 or sens\$3) NEAR1 programmable NEAR1 (zero\$2level or zero-level or zero level) NEAR1 (sample\$2 NEAR1 pulse\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:38
S6	0	(detect\$3 or sens\$3) NEAR1 programmable WITH (zero\$2level or zero-level or zero level) NEAR1 (sample\$2 NEAR1 pulse\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:17

## EAST Search History

S7	0	(detect\$3 or sens\$3) NEAR1 programmable SAME (zero\$2level or zero-level or zero level) NEAR1 (sample\$2 NEAR1 pulse\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:38
S8	0	(detect\$3 or sens\$3) NEAR1 programmable AND (zero\$2level or zero-level or zero level) NEAR1 (sample\$2 NEAR1 pulse\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:18
S9	2205	(detect\$3 or sens\$3) NEAR1 programmabl\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:48
S10	425	(constant or consecutive or series or continu\$4 or progressor\$4 or success\$5) NEAR3 (zerosor zero\$1level or zero-level or zero level)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:42
S11	5	S9 and S10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:43
S12	38955	(constant or consecutive or series or continu\$4 or progressor\$4 or success\$5) NEAR3 (zero\$2 or zero\$1level or zero-level or zero level)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:49
S13	52	S9 and S12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:43

## EAST Search History

S14	70	auto\$2mut\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:47
S15	70	auto\$2mut\$4 or auto-mut\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:47
S16	6	S9 and S15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:47
S17	9	("3864311"   "5512895"   "5640161"   "5872531"   "6208671"   "6215415"   "6215423"   "6373417"   "6642876").PN. OR ("6992604"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/29 12:48
S18	0	S15 and S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:48
S19	349522	programmabl\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:19
S20	28	S15 and S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:48

## EAST Search History

S21	1266276	pcm or pulse	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:15
S22	120849	"dac" or "d/a" or "d-t-a" or (digital to analog converter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:49
S23	18	S21 and S20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:49
S24	7	("4554512"   "5077540"   "6127885"   "6294954"   "6362683"   "6414614").PN. OR ("7034609").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/29 12:52
S25	677	programmabl\$3 NEAR3 zero\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 12:53
S26	352	S21 and S25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:14
S27	16	("3781574"   "3809923"   "3903406"   "3935439"   "3952188"   "3953745"   "4035666"   "4079238"   "4100513"   "4120035"   "4156924").PN. OR ("4298953").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/29 12:55

## EAST Search History

S28	8	"5920833"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:37
S29	4	("5701346"   "5920833"   "6023490").PN. OR ("6275589"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/29 13:16
S30	19200	programmabl\$3 NEAR3 (predetermin\$4 or threshold\$2 or value or level)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:21
S31	835	S30 and S12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:22
S32	627	S31 and S21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:22
S33	325	S32 and S22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:23
S34	12551	zero NEAR1 counter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:23

## EAST Search History

S35	2029	zero NEAR1 comparator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:24
S36	136	S34 and S35	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:24
S37	352	S26 and S25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:25
S38	0	S36 and S25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:26
S39	0	S36 and S25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:25
S40	48	S36 and S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:26
S41	10	S36 and S30	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:26

## EAST Search History

S42	34	("20010007458"   "4868676"   "4920548"   "5049898"   "5121349"   "5467118"   "5562353"   "5757394"   "5788388"   "5792249"   "5812156"   "5847836"   "5860363"   "5886371"   "5923942"   "5949467"   "5961226"   "5963104"   "5992994"   "5995772"   "6000773"   "6014008"   "6062667"   "6161915"   "6217165"   "6222452"   "6227643"   "6267522"   "6297872"   "6304825"   "6378997"   "6547364"   "6736477"   "6745331").PN. OR ("7193482").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/29 13:29
S43	9	"5682162"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 13:51
S44	10	"4389637"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 14:03
S45	24	"5200750"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 14:03
S46	120849	"dac" or "d/a" or "d-t-a" or (digital to analog converter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:14

## EAST Search History

S47	39984	"pcm" or "pulse ADJ cod\$3 ADJ modulat\$4"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:15
S48	5823	S46 and S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:15
S49	19200	programmabl\$3 NEAR3 (predetermin\$4 or threshold\$2 or value or level)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:56
S50	464842	mut\$3 or auto\$2mut\$4 or auto-mut\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:18
S51	19550	zero\$2level or zero-level or zero level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:31
S52	176	S48 and S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:24
S53	349522	programmabl\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:34

## EAST Search History

S55	1393	S48 and S53	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:20
S56	241	S49 and S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:14
S57	19	S56 and S50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:20
S58	7	("3571730"   "4716588"   "4924498").PN. OR ("5166976"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/29 15:22
S59	44	S52 and S50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:27
S60	10	S59 and S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:28
S61	9	("3864311"   "5512895"   "5640161"   "5872531"   "6208671"   "6215415"   "6215423"   "6373417"   "6642876").PN. OR ("6992604"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/29 15:29
S62	0	S51 and S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:29

## EAST Search History

S63	1	S50 and S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:29
S64	1	S61 and S53	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:29
S65	10	"4389637"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:30
S66	24	"5200750"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:31
S67	5	S66 and S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:32
S68	0	S67 and S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:32
S69	0	S67 and S53	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 15:32

## EAST Search History

S70	43599	programmabl\$3 near3 (rom or counter or logic array or variable or user program\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:55
S71	8355611	threshold\$2 or value2 or level\$2 or number\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:01
S72	569517	predetermined near3 (threshold\$2 or value2 or level\$2 or number\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:52
S73	3	S46 and S47 and S51 and S70 and S72	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:04
S74	8388	S70 and S72	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:23
S75	16	S74 and S50 and S48	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:10
S76	72	S74 and S48	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:06

## EAST Search History

S77	418	S74 and S50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:10
S78	9	S74 and S50 and S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:10
S79	24	("3524075"   "3899637"   "3931575"   "4229827"   "4254504"   "4267595"   "4322850"   "4331941").PN. OR ("4521891").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/29 16:11
S80	37	("4243884"   "4782840"   "4801803").PN. OR ("4889991"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/29 16:11
S81	176	S48 and S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:14
S82	935	S48 and S50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:15
S83	22	S82 and S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:17
S84	2	S83 and S70	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:17

## EAST Search History

S85	18	("2492004"   "4015211"   "4320521"   "4333108"   "4336512"   "4341964"   "4438466").PN. OR ("4613974").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/29 16:19
S86	20	("3939431"   "3984776"   "4344175"   "4411021"   "4455664"   "4613974"   "4891824").PN. OR ("5333153").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/03/29 16:20
S87	233	S74 and S47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:24
S88	26	S87 and S50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:25
S89	8	S87 and S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:25
S90	1109883	(predetermined near3 (threshold\$2 or value2 or level\$2 or number\$2)) or threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:55
S91	1797046	(programmabl\$3 near3 (rom or counter or logic array)) or variable or (user program\$3) or (user ADJ (input or system))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:58

## EAST Search History

S92	45	S48 and S51 and S90 and S91	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:59
S93	9	S48 and S51 and S90 and S91 and S50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 16:59
S94	9	"5657454"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 19:27
S95	120849	"dac" or "d/a" or "d-t-a" or (digital to analog converter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 19:39
S96	39984	"pcm" or "pulse ADJ cod\$3 ADJ modulat\$4"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 19:39
S97	5823	S95 and S96	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 19:39
S98	464842	mut\$3 or auto\$2mut\$4 or auto-mut\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 19:39

## EAST Search History

S99	19550	zero\$2level or zero-level or zero level	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 19:39
S10 0	1109883	(predetermined near3 (threshold\$2 or value2 or level\$2 or number\$2)) or threshold	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 19:39
S10 1	1797046	(programmabl\$3 near3 (rom or counter or logic array)) or variable or (user program\$3) or (user ADJ (input or system))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 19:39
S10 2	9	S97 and S99 and S100 and S101 and S98	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/03/29 19:39